

ENERGY STAR® Product Development Update Spring 2006

Provided below are updates on existing and potential ENERGY STAR qualified product categories currently being researched by the Environmental Protection Agency (EPA) and the Department of Energy (DOE). For more information on the status of EPA and DOE's research, visit the ENERGY STAR Specifications in Development Web site at www.energystar.gov/productdevelopment. Click on "Revisions to Existing Specifications" or "New Product Specifications in Development" on the right navigation bar for a list of product-specific Web pages. Contacts are also provided at the end of each update for those parties interested in finding out more about a particular product.

Battery Charging Systems

The ENERGY STAR Version 1.0 Battery Charging Systems specification took effect in January 2006. The specification covers small household appliances and power tools with rechargeable batteries, and complements the existing ENERGY STAR External Single Voltage External Ac-Dc and Ac-Ac Power Supply specification. For more information, visit the ENERGY STAR Battery Charging Systems Specification Development Web page or the new Battery Charging Systems Web page in the products section.

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Ceiling Fans

On December 23, 2005 EPA announced the finalization of the ENERGY STAR Version 2.1 Residential Ceiling Fan specification. This specification is an amendment to the previous Version 2.0 specification and includes a new *Appendix A: Ceiling Fan Light Kit Requirements*. The requirements provided in this new appendix were derived from the existing ENERGY STAR Version 4.0 Residential Light Fixture specification to assist ceiling fan manufacturers in identifying the testing, reporting, and documentation requirements that apply specifically to ceiling fan light kits by referencing one document. **The Version 2.1 Residential Ceiling Fan specification will go into effect on September 1, 2006.**

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Clothes Washers

On December 20, 2005, DOE released the final clothes washer criteria revision for 2007 that includes a minimum Modified Energy Factor (MEF) of 1.72 and a maximum water factor of 8.0. The criteria change will apply to both residential clothes washers and residential style commercial clothes washers. **The new ENERGY STAR criteria for clothes washers will go into effect on January 1, 2007.**

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Compact Fluorescent Light Bulbs (CFLs)

DOE distributed the third draft revision of the ENERGY STAR Version 4.0 criteria for CFLs to industry stakeholders on April 19, 2006 with comments due by May 19, 2006. **The third draft revision expanded the criteria's scope to include GU24 based compact fluorescent lamps with integral ballasts and also slightly modified the efficacy requirements** to provide some flexibility for partners to offer higher quality and a wider variety of specialty products to consumers and businesses. DOE continues to work with industry and testing laboratories to incorporate Elevated Temperature Life Testing for ENERGY STAR qualified CFL reflectors into the criteria. The current suggested effective date for this criteria revision is January 1, 2007.

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Computers

EPA released a Draft 2 specification on April 13, 2006 for review and comment. This Draft 2 document reflects the latest round of stakeholder comments submitted to EPA in response to the Draft 1 specification and feedback shared during an industry stakeholder meeting hosted by EPA on February 15, 2006. Of note, the Draft 2 specification sets a new Tier I effective date of July 1, 2007; proposes a new method for delineating between desktop systems by capability for the Idle state; and requires Wake

On LAN (WOL) only for systems shipped through enterprise channels. **EPA will be hosting a stakeholder working session on Thursday, May 18th in Washington, DC to resolve or progress remaining issues regarding the specification** and hopes to finalize the specification by Summer, 2006. More information can be found on the Computer Specification Development Web page.

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Dishwashers: Commercial

EPA released a Draft 1 ENERGY STAR Version 1.0 Commercial Dishwashers specification on May 5, 2006 for stakeholder review. The specification proposes a maximum gallons per rack requirement for under counter; single tank, door type; and single tank, conveyor commercial dishwashers, based on the NSF International database. The specification covers both high temperature and chemical dishwashers for each of these categories. **On May 22nd, EPA will hold a commercial dishwasher stakeholder meeting at the National Restaurant Association Show in Chicago, IL to facilitate discussion of the specification.** Formal comments on the specification are due to EPA by June 2, 2006.

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Digital TV Adapters

EPA distributed a memo to stakeholders on April 5, 2006, officially launching the development process for a Version 1.0 specification for Digital TV Adapters (DTAs). EPA will **host a workshop on July 27, 2006 in Washington, DC to discuss development of the Version 1.0 specification** with interested stakeholders, particularly potential DTA manufacturers/resellers and chip manufacturers. Stakeholders will be encouraged to bring information to the workshop related to state of the art designs that use one or more digital chips to perform the key DTA functions.

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Dishwashers: Residential

On March 8, 2006, DOE released the final ENERGY STAR dishwasher criteria for 2007. The new criteria **raise the minimum Energy Factor (EF) on standard dishwashers to 0.65 and, for the first time, establish a minimum EF for compact dishwashers of 0.88.** Other issues discussed at the July stakeholder meeting, such as water consumption and standby power will be addressed as part of the Dishwasher Working Group, which has its initial call on May 9, 2006. The new criteria takes effect on January 1, 2007.

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Enterprise Servers

ENERGY STAR is encouraging the industry to develop standard energy efficiency metrics for servers used in data centers. At this time an ENERGY STAR specification is not being contemplated. For more information, visit the Web site at www.energystar.gov/datacenters.

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External Power Supplies

In March EPA released an ENERGY STAR Version 1.1 Single Voltage External Ac-Dc and Ac-Ac Power Supplies specification. The revised specification incorporates two key changes: **the removal of the exclusion for the products now covered under the ENERGY STAR Battery Charging Systems specification and a delayed Tier 2 effective date.** The Tier 2 effective date was delayed in order for EPA to collect additional data for analysis through the new Online Product Submittal (OPS) tool. EPA plans to use the new data to create a Tier 2 specification. The proposed effective date for the Tier 2 specification is now January 1, 2008.

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Furnaces

Over the last few months, EPA has met with various industry members and representatives from the Gas Appliance Manufacturers Association (GAMA) to discuss potential revisions to the ENERGY STAR AFUE level for oil furnaces and the inclusion of a metric for measuring the electricity used by the furnace fan. EPA is also following the Natural Resources Canada's standard setting process regarding furnace fan efficiency. If a decision is made to revise the specification, EPA will follow the ENERGY STAR specification revision process, working closely with all interested stakeholders.

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Ice Machines

EPA is continuing to conduct research on the ice machine market, existing technologies and ranges of efficiency performance, and the savings potential of high efficiency water- and air-cooled models. As of January 1, 2010, all ice machines will be required by the Energy Policy Act of 2005 to meet current Consortium of Energy Efficiency (CEE) Tier I levels. Based on this preliminary research EPA will determine whether or not to introduce an ENERGY STAR specification for ice machines that can represent the top performing models prior to this effective date.

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Imaging Equipment

On May 3, 2006, EPA distributed the Final ENERGY STAR Version 1.0 Imaging Equipment specification, which provides eligibility criteria for products addressed by the Operational Mode (OM) approach and the Typical Electricity Consumption (TEC) approach. The final versions of the accompanying test procedures were distributed to stakeholders with the Final Draft Version 1.0 specification on April 21, 2006. **This specification is considered final, pending adoption by the European Union.** EPA will keep partners informed during this review process by the EU, particularly with regard to anticipated timeframe, as this information becomes available. The Version 1.0 specification is scheduled to go into effect on April 1, 2007. For more information, visit the Imaging Equipment Web page.

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Programmable Thermostats

On January 11, 2006, EPA held an industry meeting to propose transitioning from a performance specification to a consumer education campaign. On January 26, 2006, EPA released the proposal and requested comments. EPA has reviewed these comments and is **preparing a revised proposal to move forward, which should be released in May.** More information can be found on the ENERGY STAR Programmable Thermostat Products in Development page.

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Residential Light Fixtures

On April 6, 2006 EPA announced its intent to amend the Version 4.0 Residential Light Fixture specification. The intent is to "open up" the RLF specification to new and emerging technologies that expand the types of lighting solutions available to today's consumer and achieve additional energy savings in the market. Specifically, **EPA intends to add language that will allow the labeling of LED fixtures for limited applications such as recessed cans, under cabinet fixtures and outdoor fixtures; and include language for labeling of self-ballasted compact fluorescent lamps with GU-24 bases.** Of note, this revision would NOT require the additional testing or re-qualification of ANY existing qualified products. A draft of the proposed revisions is scheduled for stakeholder review in August 2006.

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Roof Products

EPA released a Draft 2 ENERGY STAR Version 2.0 Roof Products specification in response to stakeholder comments received on the previous Draft 1 version. In addition to minor clarifications regarding the definitions and test procedures, the Draft 2 specification retains the new emissivity

requirement and reverts back to the existing reflectivity level. Final comments on the revised specification are due to EPA by May 12, 2006.

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Telephony

EPA finalized the ENERGY STAR Version 2.0 Telephony specification on January 19, 2006. Under this version 2.0 specification, telephony manufacturers will have to: (i) ensure that their products meet the system-level requirements in the Version 2.0 specification; and (ii) use external power supplies that meet or exceed Tier 1 of the ENERGY STAR Single Voltage External Ac-Dc and Ac-Ac Power Supplies specification, if their telephony products are designed for use with external power supplies. The original effective date of the Version 2.0 specification was intended to be July 1, 2006. However, due to unexpected shifts in the marketplace and some confusion regarding the implementation of a Tier 2 ENERGY STAR specification for Single Voltage External Ac-Dc and Ac-Ac Power Supplies, the **effective date of the Version 2.0 telephony specification has been delayed to November 1, 2006.**

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Televisions

EPA is currently working with its international partners and a group within the International Electrotechnical Commission (IEC) to develop a new test procedure to measure the amount of energy consumed by a television when it is 'active' or in 'on' mode. A **Draft test procedure will be shared with stakeholders at a workshop being held on June 19th, 2006 in London, England**, in conjunction with the Energy Efficiency in Domestic Appliances and Lighting (EEDAL) conference. This workshop is co-sponsored by the UK Market Transformation Programme, the Australian Greenhouse Office, and the U.S. EPA. A **second workshop will be held for U.S. stakeholders on July 26, 2006 in Washington, DC, which will build upon discussions from the June 19th workshop.** Once the test procedure is finalized, EPA intends to work with industry to gather and analyze data to determine energy consumption levels, a suitable performance metric for televisions, possible ENERGY STAR specification frameworks, and other criteria.

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Vending Machines

On March 2, 2006, EPA released a Draft 2 Remanufactured Vending Machine specification requirements for review and comment. EPA is currently in the process of reviewing stakeholder feedback on this latest version of the draft specification and hopes to finalize the document over the next few months. Once the new Version 2.1 specification becomes effective, remanufactured machines will be required to meet the same efficiency requirements as new ENERGY STAR qualified machines currently covered by the specification. To view the Draft 2 specification and stakeholder comments please visit the Rebuilt Refrigerated Beverage Vending Machine Web page.

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